



9.38 BOROUGH OF VICTORY GARDENS

This section presents the jurisdictional annex for the Borough of Victory Gardens. The annex includes a general overview of the Borough of Victory Gardens; an assessment of the Borough of Victory Gardens’ risk, vulnerability, and mitigation capabilities; and a prioritized action plan to implement prior to a disaster to reduce future losses and achieve greater resilience to natural hazards.

9.38.1 Hazard Mitigation Planning Team

The following individuals are the Borough of Victory Gardens’ identified HMP update primary and alternate points of contact and Borough’s flood subject matter expert. The Borough does not participate in the NFIP.

Table 9.38-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name / Title: David Holeman, Jr., Mayor/OEM Director Address: 337 South Salem Street, Victory Gardens, Dover 07801 Phone Number: 973-366-5312 Email:	Name / Title: Leon Hall, Borough Engineer Address: 337 South Salem Street, Victory Gardens, Dover 07801 Phone Number: 973-887-2270 Email: lhall@anderson-denzler.com
NFIP Floodplain Administrator / Flood Subject Matter Expert	
Name / Title: Leon Hall, Borough Engineer Address: Phone Number: 973-887-2270 Email: lhall@anderson-denzler.com	

9.38.2 Jurisdiction Profile

The Borough of Victory Gardens is the smallest community in Morris County, both in size and population. However, it is the most densely populated community. The Borough is a total area of 0.2 square miles. Its history began in 1941, when the federal government purchased 91 acres in Randolph Township and constructed a 300-unit housing project for employees of the war industry. The federal government paid for streets, sewers and utility services. The streets of the Borough are named after United States Presidents.

According to the U.S. Census, the 2010 population for the Borough of Victory Gardens was 1,520. The estimated 2017 population was 1,685, an estimated 10% increase from the 2010 Census. Data from the 2017 U.S. Census American Community Survey indicate that 7% of the population is 5 years of age or younger and 6.6% is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

9.38.3 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to understanding a jurisdiction’s overall risk to its hazards of concern. The Borough has less than one-square mile of land available for development. Table 9.38-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. According to the Borough Clerk, there has not been any new construction in the last five years and there is no anticipated future development in the Borough in the next five years.



Table 9.38-2. Recent and Expected Future Development

Type of Development	2014	2015	2016	2017	2018
Number of Building Permits for New Construction Issued Since the Previous HMP					
Single Family	0	0	0	0	0
Multi-Family	0	0	0	0	0
Other (commercial, mixed-use, etc.)	0	0	0	0	0
Property or Development Name	Type of Development	# of Units / Structures	Location (address and/or block and lot)	Known Hazard Zone(s)*	Description / Status of Development
Recent Major Development and Infrastructure from 2015 to Present					
No recent major development					
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years					
No known or anticipated major development and infrastructure at this time.					

9.38.4 Capability Assessment

The Borough of Victory Gardens performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Section 5 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. This section summarizes the following findings of the assessment:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Information on National Flood Insurance Program (NFIP) compliance.
- Classification under various community mitigation programs.
- The community’s adaptive capacity for the impacts of climate change.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of this planning effort, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress in plan integration. Areas with current mitigation integration are summarized in Capability Assessment (Section 5). The Borough of Victory Gardens identified specific integration activities that will be incorporated into municipal procedures are included in the updated mitigation strategy.

PLANNING, LEGAL AND REGULATORY CAPABILITY

The table below summarizes the legal and regulatory tools that are available to the Borough of Victory Gardens and where hazard mitigation has been integrated.



Table 9.38-3. Planning, Legal and Regulatory Capability

	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Has the HMP been integrated in the last 5 years? If yes- how?	
				If yes-how? Describe in comments	If no - can it be a mitigation action? If yes, add Mitigation Action #.
Codes, Ordinances, & Requirements					
Building Code	Yes	State & Local	Yes		
<i>Comment:</i> Chapter XI Building and Housing adopted by the Borough of Victory Gardens. The Borough established a State Uniform Construction Code Enforcing Agency," consisting of a Construction Official, Building Subcode Official, Plumbing Subcode Official, Electrical Subcode Official, Fire Protection Subcode Official, Elevator Subcode Official and such other subcode officials for such additional subcodes as the Commissioner of the Department of Community Affairs, State of New Jersey, shall hereafter adopt as part of the State Uniform Construction Code. The Construction Official shall be the chief administrator of the Enforcing Agency. State Uniform Construction Code Act (N.J.S. 52:27D-119 et seq.)					
Zoning Code	Yes	Local	Planning Board	Yes	
<i>Comment:</i> In accordance with Code Chapter XX (Land Use Procedures), the Planning Board acts as Zoning Board of Adjustment. Chapter XXIII (Zoning) – one of the intents of this chapter is to secure safety from fire, flood, panic and other natural disasters.					
Subdivisions	Yes	Local	Planning Board	Yes	
<i>Comment:</i> Code Chapter XXI (Land Subdivision and Site Plan Review). The purpose of this chapter shall be to provide rules, regulations and standards to guide land subdivision in the Borough of Victory Gardens in order to promote the public health, safety, convenience and general welfare of the Borough and to carry out the objective of the Municipal Land Use Law. It shall be administered to ensure the orderly growth and development, the conservation, protection and proper use of land and adequate provisions for circulation, utilities and services and the conservation and environmental protection of all land, water and air resources within the jurisdiction of the Borough. (1982 Code § 15-1.3). The Chapter discusses the suitability of a lot may require additional information from the Planning Board based on the presence of rock formations, soil conditions, steep slopes, streams, watercourses, flood conditions, high water table and/or other environmentally sensitive factors.					
Stormwater Management	Yes	Local			
<i>Comment:</i> Title 7 of the NJ Administrative Code (N.J.A.C. 7:8); Chapter 18C (Municipal Stormwater Management and Storm Sewer Systems). Ordinance 6-26-12 provides for the management of stormwater and storm sewer systems including a portion of which addresses private storm drain inlets. Ordinance for Stormwater Control (21-20): The purpose is to establish minimum stormwater management requirements and controls for major development.					
Post-Disaster Recovery	No				
<i>Comment:</i>					
Real Estate Disclosure	Yes	State			
<i>Comment:</i> Division of Consumer Affairs N.J.A.C. 13:45A-29.1 Before signing a contract of sale, all purchasers must receive a New Jersey Public Offering Statement (POS) approved by the New Jersey Real Estate Commission. The POS provides information such as proximity to hospitals, schools, fire and police, as well as any hazards, risks or nuisances in or around the subdivision.					
Growth Management	No				
<i>Comment:</i>					
Site Plan Review	Yes	Local	Planning Board	Yes	
<i>Comment:</i> Chapter 21, the Planning Board reviews site plans and has authority to approve. The Planning Board may request additional information from the applicant based on the presence of rock formations, soil conditions, steep slopes, streams, watercourses, flood conditions, high water table and/or other environmentally sensitive factors.					
Environmental Protection					
<i>Comment:</i>					
Flood Damage Prevention	No	Federal, State, Local			



	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Has the HMP been integrated in the last 5 years? If yes- how?	
				If yes- how? Describe in comments	If no - can it be a mitigation action? If yes, add Mitigation Action #.
<i>Comment:</i> The Borough does not participate in the National Flood Insurance Program. According to the Stormwater Management Plan There are no streams or lakes in the Borough.					
Wellhead Protection	No				
<i>Comment:</i> The Stormwater Management Plan includes groundwater recharge areas (Figure C-4) and wellhead protection areas (Figure C-5).					
Emergency Management	Yes	Borough			
<i>Comment:</i> Chapter XIV, Fire Prevention and Fire Protection					
Climate Change	No				
<i>Comment:</i>					
Disaster Recovery Ordinance	No				
<i>Comment:</i>					
Disaster Reconstruction Ordinance	No				
<i>Comment:</i>					
Other					
<i>Comment:</i> Chapter XX (Land Use Procedures): Establishes a Planning Board to administer the provisions of the land subdivision ordinance and site plan review ordinance of the Borough in accordance with the provisions of said ordinances and the Municipal Land Use Law, N.J.S.A. 40:55D-67. The Planning Board acts as Zoning Board of Adjustment.					
Planning Documents					
Comprehensive / Master Plan	Yes	Local			
<i>Comment:</i> Planning Board, April 2017					
Capital Improvement Plan	Yes	Local			
<i>Comment:</i>					
Disaster Debris Management Plan					
<i>Comment:</i>					
Floodplain or Watershed Plan	No				
<i>Comment:</i>					
Stormwater Management Plan	Yes	Local - Borough Engineer			
<i>Comment:</i> May 2005; Documents the strategy for the Borough to address stormwater-related impacts. The plan addresses groundwater recharge, stormwater quantity and stormwater quality impacts by incorporating stormwater design and performance standards for new major development, defined as projects that disturb one or more acre of land. The standards are intended to minimize the adverse impact of stormwater runoff on water quality and water quantity and the loss of groundwater recharge that provides baseflow in receiving water bodies. One goal is to reduce flood damage, including damage to life and property. The plan includes groundwater recharge areas (Figure C-4) and wellhead protection areas (Figure C-5).					
Stormwater Pollution Prevention Plan	Yes	Local - Borough Engineer is the Stormwater Coordinator	Yes	Yes	
<i>Comment:</i> May 2005; The Borough ensures all residential development and redevelopment projects that are subject to Residential Site Improvement Standards for stormwater management, including NJDEP Stormwater Management Rules NJAC 7:8, are in compliance with those standards.					





	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Has the HMP been integrated in the last 5 years? If yes- how?	
				If yes- how? Describe in comments	If no - can it be a mitigation action? If yes, add Mitigation Action #.
Urban Water Management Plan	No				
<i>Comment:</i>					
Habitat Conservation Plan	No				
<i>Comment:</i>					
Economic Development Plan	No				
<i>Comment:</i>					
Shoreline Management Plan	Not Applicable				
<i>Comment:</i>					
Community Wildfire Protection Plan	No				
<i>Comment:</i>					
Community Forest Management Plan	No				
<i>Comment:</i>					
Transportation Plan	No				
<i>Comment:</i>					
Agriculture Plan	No				
<i>Comment:</i>					
Climate Action Plan	No				
<i>Comment:</i>					
Tourism Plan	No				
<i>Comment:</i>					
Business Development Plan	No				
<i>Comment:</i>					
Other					
<i>Comment:</i>					
Response/Recovery Planning					
Comprehensive Emergency Management Plan (CEMP) / Emergency Operations Plan (EOP)	Yes	Emergency Manager			
<i>Comment: Emergency Response Plan – Yes, Local OEM Emergency Operations Plan 2014</i>					
Threat & Hazard Identification & Risk Assessment (THIRA)	No				
<i>Comment:</i>					
Post-Disaster Recovery Plan	No				
<i>Comment:</i>					
Continuity of Operations Plan	No				
<i>Comment:</i>					
Public Health Plan	No				





	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Has the HMP been integrated in the last 5 years ? If yes- how?	
				If yes- how? Describe in comments	If no - can it be a mitigation action? If yes, add Mitigation Action #.
<i>Comment:</i>					
Other					
<i>Comment:</i>					

Table 9.38-4. Development and Permitting Capability

Criterion	Response
Does your jurisdiction issue development permits? - If no, who does? If yes, which department?	Yes Building Department/Land Use Board
Does your jurisdiction have the ability to track permits by hazard area?	Yes
Does your jurisdiction have a buildable lands inventory? -If yes, please describe briefly. -If no, please quantitatively describe the level of buildout in the jurisdiction.	No <u>99% Built Out</u>

ADMINISTRATIVE AND TECHNICAL CAPABILITY

The table below summarizes potential staff and personnel resources available to the Borough of Victory Gardens.

Table 9.38-5. Administrative and Technical Capabilities

Staff/Personnel Resource	Available?	Department/Agency/Position
Administrative Capability		
Planning Board	Yes	Combined with Land Use Board
Mitigation Planning Committee	No	
Environmental Board / Commission	No	
Open Space Board / Committee	No	
Economic Development Commission / Committee	No	
Warning Systems / Services (reverse 911, outdoor warning signals)	Yes	Reverse 911
Maintenance program to reduce risk	Yes	Catch basin clearing
Mutual aid agreements	Yes	Surrounding Community, County State,
Technical/Staffing Capability		
Planners or engineers with knowledge of land development and land management practices	Yes	Borough Engineer and professional planner contractors
Engineers or professionals trained in building or infrastructure construction practices	Yes	Borough Engineer and professional planner contractors
Planners or engineers with an understanding of natural hazards	Yes	Borough Engineer and professional planner contractors





Staff/Personnel Resource	Available?	Department/Agency/Position
Staff with training in benefit/cost analysis	No	
Staff with training in green infrastructure	Yes	
Staff with education/knowledge/training in low impact development	No	Contractor
Surveyor	Yes	Contractors as needed
Stormwater engineer		
Personnel skilled or trained in GIS applications	Yes	Contractors as needed
Local or state water quality professional		
Scientist familiar with natural hazards in local area	No	
Emergency manager	Yes	Mayor D. Holeman
Watershed planner	No	Insert appropriate information
Environmental specialist	No	Insert appropriate information
Grant writers	Yes	Leon Hall, Borough Engineer
Resilience Officer	No	
Other		

FISCAL CAPABILITY

The table below summarizes financial resources available to the Borough of Victory Gardens.

Table 9.38-6. Fiscal Capabilities

Financial Resource	Accessible or Eligible to Use?
Community Development Block Grants (CDBG, CDBG-DR)	Yes
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for Specific Purposes	Yes
User Fees for Water, Sewer, Gas or Electric Service	No
Incur Debt through General Obligation Bonds	No
Incur Debt through Special Tax Bonds	No
Incur Debt through Private Activity Bonds	No
Withhold Public Expenditures in Hazard-Prone Areas	No
State-Sponsored Grant Programs	Yes NJ DOT, Morris County Community Development
Development Impact Fees for Homebuyers or Developers	No
Clean Water Act 319 Grants (Nonpoint Source Pollution)	No
Other	

EDUCATION AND OUTREACH CAPABILITY

The table below summarizes the education and outreach resources available to the Borough of Victory Gardens.

Table 9.38-7. Education and Outreach Capabilities

Criterion	Response
Do you have a public information officer or communications office?	Borough Clerk
Do you have personnel skilled or trained in website development?	No
Do you have hazard mitigation information available on your website?	Yes, Consultant





Criterion	Response
<ul style="list-style-type: none"> If yes, briefly describe. 	
Do you use social media for hazard mitigation education and outreach? <ul style="list-style-type: none"> If yes, briefly describe. 	Yes Victory Gardens Email Newsletter
Do you have any citizen boards or commissions that address issues related to hazard mitigation? <ul style="list-style-type: none"> If yes, briefly describe. 	No
Do you have any other programs already in place that could be used to communicate hazard-related information? <ul style="list-style-type: none"> If yes, briefly describe. 	Victory Gardens Email Newsletter, Municipal Website, Flyers
Do you have any established warning systems for hazard events? <ul style="list-style-type: none"> If yes, briefly describe. 	No

COMMUNITY CLASSIFICATIONS

The table below summarizes the classifications for community programs available to the Borough of Victory Gardens.

Table 9.38-8. Community Classifications

Program	Participating?	Classification	Date Classified
Community Rating System	NP		
Building Code Effectiveness Grading Schedule (BCEGS)	NP		
Public Protection (Fire ISO Protection Class)			
Storm Ready Certification	No		
Firewise Community Classification	No		
Sustainable Jersey	No		

NP = Not Participating

ADAPTIVE CAPACITY

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). In other words, it describes a jurisdiction’s current ability to adjust to, protect from, or withstand a hazard event. This term is often discussed in reference to climate change; however, adaptive capacity also includes an understanding of local capacity for adapting to current and future risks and changing conditions. The table below summarizes the adaptive capacity for each hazard and the jurisdiction’s rating.

Table 9.38-9. Adaptive Capacity of Climate Change

Criterion	Response
Does the municipality have access to resources to determine the possible impacts of climate change upon the municipality?	No
Is the administrative supportive of integrating climate change in policies or actions?	Yes
Is climate change already being integrated into current policies/plans or actions (projects/monitoring) within the municipality?	No



Hazard	Adaptive Capacity (Capabilities) - High/Medium/Low
Dam Failure	Low
Disease Outbreak	Low
Drought	Low
Earthquake	Low
Extreme Temperature	Low
Flood	Low
Geologic	Low
Harmful Algal Bloom	Low
Hazardous Substances	Low
Infestation	Low
Severe Weather	Medium
Severe Winter Weather	Low
Wildfire	Low

NATIONAL FLOOD INSURANCE PROGRAM

The Borough of Victory Gardens does not participate in the National Flood Insurance Program (NFIP).

Table 9.38-10. National Flood Insurance Program Compliance

Criterion	Response
What local department is responsible for floodplain management?	Borough Engineer
Who is your floodplain administrator? (name, department/position)	Leon Hall, Borough Engineer is the Floodplain Administrator
Are any certified floodplain managers on staff in your jurisdiction?	No
What is the date that your flood damage prevention ordinance was last amended?	Not applicable
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> If exceeds, in what ways? 	Not applicable
When was the most recent Community Assistance Visit or Community Assistance Contact?	Not applicable
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> If so, state what they are. 	Not applicable
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> If so, state what they are. 	Not applicable
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> If no, state why. 	Not application – do not participate in the NFIP
Does your floodplain management staff need any assistance or training to support its floodplain management program? <input type="checkbox"/> If so, what type of assistance/training is needed?	No
Does your jurisdiction participate in the Community Rating System (CRS)? <ul style="list-style-type: none"> If yes, is your jurisdiction interested in improving its CRS Classification? If no, is your jurisdiction interested in joining the CRS program? 	No
How many flood insurance policies are in force in your jurisdiction?*	0 listed on FEMA HUDEX - do not participate in the NFIP
<ul style="list-style-type: none"> What is the insurance in force? What is the premium in force? 	





Criterion	Response
How many total loss claims have been filed in your jurisdiction?*	0 listed on FEMA HUDEX - do not participate in the NFIP
<ul style="list-style-type: none"> How many claims are still open or were closed without payment? What were the total payments for losses? 	
Do you maintain a list of properties that have been damaged by flooding?	
Do you maintain a list of property owners interested in flood mitigation?	No

*According to FEMA statistics as of July 2019

ADDITIONAL AREAS OF EXISTING INTEGRATION

Planning

The Borough maintains a stormwater management plan and a stormwater management ordinance. The stormwater management documents were reviewed for this HMP update.

Regulatory and Enforcement

The Borough Engineer reviews development permits to ensure development does not occur on steep slopes or within a floodplain.

The Planning Board considers applications for site plan review and provides variances as to permitted uses and applications for subdivisions. The Planning Board makes determinations as to the Adoption of the Master Plan. The Board makes recommendations to the Mayor and Council with regard to zoning ordinances and amendments.

Operational and Administration

Risk management operations in the Borough consist of: Large Tree maintenance/removal program. Storm sewer inspection reference DEP permit.

Fiscal

Funding from the capital budget is dedicated for the removal of large trees that pose a threat to public safety, private property and infrastructure. Projects in this and future Hazard Mitigation Plans will be reviewed for inclusion in the capital budget.

Education and Outreach

The Borough issues an annual flyer encouraging residents to be knowledgeable of stormwater and sewer blockage due to leaves and other debris.

9.38.5 Hazard Event History Specific to the Jurisdiction

Morris County has a history of hazard events, as detailed in Section 4 (Risk Assessment) of this plan. A summary of historical events is provided in each of the hazard profiles in Section 4.4 (Hazard Profiles) and includes a chronology of events that affected Morris County and its jurisdictions. The Borough of Victory Gardens’ history of federally declared (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of Morris County. Table 9.38-11 provides details regarding municipal-specific loss and damages the Borough of Victory Gardens experienced during hazard events. Information provided in the table below is based on reference material or local sources.





Table 9.38-11. Hazard Event History

Date(s) of Event	Event Type (disaster declaration if applicable)	Morris County Designated?	Summary of Event	Summary of Local Damages and Losses
January 21-24, 2016	Severe Winter Storm and Snowstorm	Yes	Wind gusts up to 60 MPH produced blizzard conditions as visibilities dropped to one-quarter mile or less in spots. Snow began during the evening hours on the 22nd, then continued, heavy at times through the 23rd before ending early on the 24th. Snowfall totals included 30.0 inches in Long Valley, 29.0 inches in Madison, 26.0 inches in Budd Lake, 25.3 inches in Green Pond, 22.5 inches in Butler, 21.0 inches in Chatham, and 18.0 inches in Marcella. At one point during the storm, up to 270,000 customers were without power.	Snow clearing; power outages; trees down blocking road access
March 6-7, 2018	Severe Winter Storm and Snowstorm	Yes	12 to 24 inches of snow was observed across large parts of Morris County. The snow contained large amounts of liquid, making it heavy and wet. This resulted in downed trees, limbs, and wires, leading to numerous power outages across portions of New Jersey, especially where the heaviest snow was reported. Many customers were still without power from the previous storm when this storm struck. Governor Murphy estimated about 350,000 customers state-wide lost power as a result of this second storm. Governor Phil Murphy declared a state of emergency which went into effect at 8 PM Tuesday March 6th.	Limited access due to volume of snow; power outages; trees down

9.38.6 Jurisdiction-Specific Vulnerabilities and Hazard ranking

The hazard profiles in Section 4 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards.



Table 9.38-12 summarizes the Borough of Victory Gardens risk assessment results and data used to determine the hazard ranking.

A gradient of certainty was developed to summarize the confidence level regarding the input used to populate the hazard ranking. A certainty factor of high, medium or low was selected and assigned to each hazard to provide a level of transparency and create increased understanding of the data used to support the resulting ranking. The following scale was used to assign a certainty factor to each hazard:

- High—Defined scenario/event to evaluate; probability calculated; evidenced-based/quantitative assessment to estimate potential impacts through hazard modeling.
- Moderate—Defined scenario/event or only a hazard area to evaluate; estimated probability; combination of quantitative (exposure analysis, no hazard modeling) and qualitative data to estimate potential impacts.
- Low—Scenario or hazard area is undefined; there is a degree of uncertainty regarding event probability; majority of potential impacts are qualitative.



Table 9.38-12. Summary of Risk Assessment Results

Hazard of Concern	Hazard/ Scenario Area Evaluated	Population		Buildings		Economy (Loss)		Certainty Factor
Dam Failure	Partial or complete failure of a dam There are 0 dams in the Borough, according to NJDEP.	Population impacted is dependent on the capacity of the dam, the extent of the dam failure inundation area and the severity of the failure.		The number of building impacted is dependent on the capacity of the dam, the extent of the dam failure inundation area and the severity of the failure.		Economic impacts include dam/building/infrastructure repairs; debris removal/disposal; utility impacts.		Low
Disease Outbreak	Disease Outbreaks which include: Mosquito-Borne Diseases, Tick-Borne Diseases, Campylobacteriosis, Influenza, Mumps, Ebola	Population impacted is dependent on the disease and severity of the outbreak; in some cases immuno-compromised persons are more vulnerable.		Structural impacts due to disease outbreak would be limited.		Economic losses can include County financial impacts to monitor/address outbreaks; lost wages or commercial interruptions; depends on the severity and type of disease outbreak. .		Low
Drought	Prolonged drought event - The County is serviced by water supplies who primarily get water from groundwater sources; some surface water sources.	Entire population exposed. Population on surface water supplies may be impacted first; water restrictions/contamination; increased wildfire risk.		Droughts are not expected to cause direct damage to buildings.		Losses include aesthetic, landscape/nursery/agricultural industry impacts.		Low
Earthquake	100, 500-, 2,500-Year Mean Return Period (MRP) Events evaluated NEHRP Soils D&E (soft soils that amplify ground shaking are present in the County)	NEHRP D&E:	160	NEHRP D&E:	41	100-year Loss:	\$0	High
		Liquefaction Class 4:	0	Liquefaction Class 4:	0	500-year Loss:	\$111,599	
						2,500-year Loss:	\$1,785,531	
Extreme Temperature	Extreme temperature event (heat or cold)	Over 65 Population:	108	Physical impacts due to extreme temperatures would be limited.		Loss of business function is possible due to unexpected repairs (i.e. pipes bursting) or power failures.		Low
		Population Below Poverty Level:	414					





Hazard of Concern	Hazard/ Scenario Area Evaluated	Population		Buildings		Economy (Loss)		Certainty Factor
Flood	100- and 500-Year Mean Return Period Event	100-year	0	100-year	0	100-year Loss:	\$0	High
		500-year	31	500-year	10			
Geological	High Landslide Susceptibility Areas and Areas developed over carbonate rock	Class A:	0	Class A:	0	Class A:	0	Moderate
		Class B:	0	Class B:	0	Class B:	\$0	
		Carbonate Bedrock:	0	Carbonate Bedrock:	0	Carbonate Bedrock:	\$0	
Harmful Algal Bloom	Any body of water or area adjacent that is susceptible to harmful algal bloom.	Population in contact (e.g., swimming) or drinking water from surface water impacted can result in a range of health effects		General building stock impacts due to harmful algal bloom are not anticipated. Critical facilities (i.e., water treatment plants) could lead to plant closures.		Economic impacts range from recreational closure of impacted waterbodies; cost to sample/monitor/remediate.		Low
Hazardous Substance	Release of a hazardous substance from a fixed site.	Population impacted will depend on the type of material and scale of the incident. May include population within small radii of site.		The degree of damages to a building depends on the scale of the incident.		The degree of damages depends on the scale of the incident.		Low
Infestation	Infestation including: Insects [e.g. Gypsy Moth, Mosquitoes, Spotted Lanternfly, Emerald Ash Borer], White-Tailed Deer, Rodents	Population impacted will depend on the type and severity of infestation and may cause an increased risk for disease outbreak.		Physical impacts will be limited to indirect impacts from invasive species which affect crops and vegetation.		Economic impact will depend on the type and severity of infestation and may cause an increased risk for disease outbreak.		Low
Severe Weather	Severe Weather Event	Entire population exposed; The degree of impact to the population depends on the scale of the incident.		Entire building stock is exposed; The degree of impact depends on the scale of the incident.		Annualized Loss:	\$1,371	High
						100 -Year Loss:	\$27,593	
						500-year Loss:	\$203,666	
Severe Winter Weather	Severe Winter Weather Event	All residents/commuters/visitors are exposed; socially-vulnerable populations may be at increased risk.		All buildings are exposed; the degree of impact depends on the scale of the incident.		The cost of snow and ice removal and repair of roads/infrastructure can impact operating budgets.		Low
Wildfire	Wildfire Fuel Hazard areas (High, Very High, Extreme)	Wildfire:	0	Wildfire:	0	Wildfire:	\$0	Moderate





REPETITIVE FLOOD LOSSES

The Borough does not participate in the NFIP.

CRITICAL FACILITIES

There are no critical facilities located within the 1-percent or 0.2-percent annual chance flood areas for the Borough of Victory Gardens.

Table 9.38-13. Potential Flood Losses to Critical Facilities and Lifelines

Name	Type	Exposure		Status of Mitigation
		1% Event	0.2% Event	
None identified				

ADDITIONAL IDENTIFIED VULNERABILITIES

There is no backup power at critical facilities in the Borough including Municipal Hall/DPW which serves as the EOC and the Fire Station.

HAZARD AREA EXTENT AND LOCATION

Hazard area extent and location maps were generated for the Borough of Victory Gardens that illustrate the probable areas impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Maps have been generated only for those hazards that can be clearly identified using mapping techniques and technologies and for which the Borough of Victory Gardens has significant exposure. Figures 9.38-1 and 9.38-2 display the hazard extents located in the Borough of Victory Gardens.

HAZARD RANKING

This section includes the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; its potential impacts on people, property, and the economy; community capability and changing future climate conditions. This input supports the mitigation action development to target those hazards with highest level of concern.

As discussed in Section 4.3 (Hazard Ranking), each plan participant may have differing degrees of risk exposure and vulnerability compared to Morris County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community factoring in their capabilities to withstand impacts and rebound after the event. The table below summarizes the hazard rankings of potential natural hazards for the Borough of Victory Gardens. The Borough of Victory Gardens has reviewed the Morris County hazard ranking table, as well as its individual results, to reflect the relative risk of the hazards of concern to the community.

Table 9.38-14. Borough of Victory Gardens Hazard Ranking Input

Dam Failure	Drought	Earthquake	Extreme Temperature	Flood	Geological Hazard
Low	Medium	Medium	Medium	Low	Low





Harmful Algal Bloom	Severe Storm	Severe Winter Storm	Wildfire	Hazardous Substances	Disease Outbreak	Infestation
Low	High	High	Low	Medium	High	Medium

9.38.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and provides action prioritization.

PAST MITIGATION INITIATIVE STATUS

The following table summarizes the jurisdiction’s progress on their mitigation strategy identified in the 2015 HMP. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and can also be found under ‘Capability Assessment’ presented previously in this annex.

Table 9.38-15. Status of Previous HMP Mitigation Actions

2015 Action Number Action Description	Responsible Party	Status (In Progress, No Progress, Ongoing Capability, or Completed)	Include in the 2020 HMP Update?	
			Check if Yes	Enter 2020 HMP Action #
Backup power for Municipal Building/DPW (Data Storage/EOC) located on Salem Street.	Engineering	No progress to date	Yes	2020-Victory Gardens-001
Purchase a 30KW generator to power overhead doors and the vehicle exhaust disconnect system at Washington Ave. Fire Station	Engineering	No progress to date	Yes	2020-Victory Gardens-002
Develop all-hazards public education and outreach program for hazard mitigation and preparedness.	Mayor	Ongoing Initiative; remove this is a capability		
Incorporate natural hazard risk/mitigation into the next master plan update.	Mayor	No progress to date	Yes	2020-Victory Gardens-003
Include hazard mitigation project funding in the Capital Improvement Budget	Mayor	Ongoing Initiative; remove this is a capability		
Tree removal on public rights of way and public land to reduce power outage from wires		Funded through municipal budget. Ongoing capability.		



PROPOSED HAZARD MITIGATION INITIATIVES FOR THE PLAN UPDATE

Results presented at the risk assessment workshop in November 2019 were shared with the Borough which provided detailed information about assets exposed and vulnerable to the identified hazards of concern. The Borough of Victory Gardens participated in an annex support meeting to update their annex and the mitigation strategy. The Mitigation Toolbox was provided that included a mitigation catalog developed specifically for Morris County and its hazards of concerns; challenges and opportunities identified during the capability and risk assessments; and the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 *Selecting Appropriate Mitigation Measures for Floodprone Structures* (March 2007) and FEMA *Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards* (January 2013). Section 6 (Mitigation Strategy) and Appendix F (Mitigation Strategy Supplement) provide a more complete description of the Mitigation Toolbox and its resources.

Table 9.38-16 summarizes the comprehensive-range of specific mitigation initiatives the Borough of Victory Gardens would like to pursue in the future to reduce the effects of hazards. Some of these initiatives might be previous actions carried forward for this HMP update. Initiatives are dependent upon available funding (grants and local match availability) and can be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

As discussed in Section 6 (Mitigation Strategy), 14 criteria were used to evaluate each action, including an evaluation of the benefits and costs. For each new mitigation action, a numeric rank was assigned (-1, 0, or 1) for each of the 14 evaluation criteria. The results of this evaluation, in addition to input from the jurisdiction, were then used to prioritize the mitigation initiatives as ‘High’, ‘Medium’, or ‘Low.’ Table 9.38-17 summarizes the evaluation of each mitigation initiative and the resulting priority, listed by Action Number.



Table 9.38-16. Proposed Hazard Mitigation Initiatives and Associated Priority

Initiative Number	Mitigation Initiative Name	Description of the Problem	Description of the Solution	New or Existing Assets?	Hazard(s) to be Mitigated	Goals Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Cost	Timeline	Priority	Mitigation Category	CRS Category
2020-Victory Gardens-001	Continuity of Operations at Municipal Building/DPW - Backup Power	Problem: There is no backup power at the Municipal Building/DPW which also stores data and serves as the Emergency Operations Center to ensure continuity of operations of the Borough during a disaster or power outage.		Existing	All	1, 6	OEM	FEMA HMA	High	Medium	Short	High	SIP	PP
		Solution: Evaluate the size generator needed, purchase and install a backup power generator for Municipal Building/DPW (Data Storage/EOC) located on Salem Street.												
2020-Victory Gardens-002	Continuity of Operations at the Fire Station	Problem: The Fire Station is a critical asset in the Borough and does not have backup power. During a power outage there is no way to operate the power overhead doors and the vehicle exhaust disconnect system.		Existing	All	1, 6	OEM	FEMA HMA	High	Medium	Short	High	SIP	PP
		Solution: Purchase a 30KW generator to power overhead doors and the vehicle exhaust disconnect system at Washington Ave. Fire Station												
2020-Victory Gardens-003	Integration of HMP in Master Plan	Problem: The Master Plan does not integrate the Hazard Mitigation Plan (e.g., hazard areas).		Both	All	1, 4	Mayor	Borough Budget	High	Low	Short	Medium	LPR	PR
		Solution: Incorporate natural hazard risk/mitigation into the next master plan update.												
2020-Victory Gardens-004	Pandemic preparedness	Problem: The COVID-19 pandemic has demonstrated that the Borough needs to increase preparedness for the next event. There is a lack of supplies at the local level and additional coordination is needed with the Health Department.		N/A	Disease Outbreak	1	Mayor	Borough Budget	High	High	Short	Low	LPR	ES



Initiative Number	Mitigation Initiative Name	Description of the Problem	Description of the Solution	New or Existing Assets?	Hazard(s) to be Mitigated	Goals Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Cost	Timeline	Priority	Mitigation Category	CRS Category
		Solution: Working with the health department for point of distribution; conduct an exercise to practice points of distribution. Purchase sterilization												

Notes:

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- PDM Pre-Disaster Mitigation Grant Program

Timeline:

The time required for completion of the project upon implementation

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Mitigation Category:

- Local Plans and Regulations (LPR) – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP) - These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP) – These are actions that minimize damage and losses and preserve or restore the functions of natural systems.
- Education and Awareness Programs (EAP) – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities.

CRS Category:

- Preventative Measures (PR) - Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
- Property Protection (PP) - These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
- Public Information (PI) - Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.
- Natural Resource Protection (NR) - Actions that minimize hazard loss and preserve or restore the functions of natural systems. Actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
- Structural Flood Control Projects (SP) - Actions that involve the construction of structures to reduce the impact of a hazard. Structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.
- Emergency Services (ES) - Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities.





Table 9.38-17. Summary of Evaluation and Action Priority

Initiative Number	Mitigation Initiative Name	Life Safety	Property Protection	Cost Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2020-Victory Gardens-001	Continuity of Operations at Municipal Hall/DPW/EOC	1	0	1	1	1	1	0	0	1	1	1	1	1	0	10	High
2020-Victory Gardens-002	Continuity of Operations at the Fire Station	1	0	1	1	1	1	0	0	1	1	1	1	1	0	10	High
2020-Victory Gardens-003	Integration of the HMP into the Master Plan	0	1	1	1	0	0	0	1	1	1	1	1	0	1	9	Medium
2020-Victory Gardens-004	Pandemic Preparedness	1	0	1	1	1	1	0	0	1	1	0	1	1	0	9	High

Notes: Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



Table 9.38-18. Analysis of Mitigation Actions by Hazard and Category

Hazard	Prevention	Property Protection	Public Education and Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilient	Community Capacity Building
Dam Failure	-003	-001, -002				-001, -002		
Disease Outbreak	-003	-001, -002			-004	-001, -002		
Drought	-003	-001, -002				-001, -002		
Earthquake	-003	-001, -002				-001, -002		
Extreme Temperature	-003	-001, -002				-001, -002		
Flood	-003	-001, -002				-001, -002		
Geologic	-003	-001, -002				-001, -002		
Harmful Algal Bloom	-003							
Hazardous Substances	-003	-001, -002				-001, -002		
Infestation	-003							
Severe Weather	-003	-001, -002				-001, -002		
Severe Winter Weather	-003	-001, -002				-001, -002		
Wildfire	-003	-001, -002				-001, -002		

Note: Section 6 (Mitigation Strategy) provides for an explanation of the mitigation categories.

RED = high ranked hazard

ORANGE = medium ranked hazard

YELLOW = low ranked hazard

9.38.8 Staff and Local Stakeholder Involvement in Annex Development

The Borough of Victory Gardens followed the planning process described in Section 2 (Planning Process). This annex was developed over the course of several months with input from many jurisdiction representatives. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization. The following table summarizes who participated and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Section 2 (Planning Process) and Appendix C (Meeting Documentation).

Table 9.38-19. Contributors to the Annex

Entity	Title	Method of Participation
David Holeman, Jr.	Mayor, OEM Coordinator	Attended the municipal kickoff meeting
Christopher Barrella	Deputy Emergency Management Coordinator	Attended annex support meeting; contributed to content of the annex
Deb Evans	Clerk	Contributed to content of the annex



Figure 9.38-1. Borough of Victory Gardens Hazard Area Extent and Location Map 1

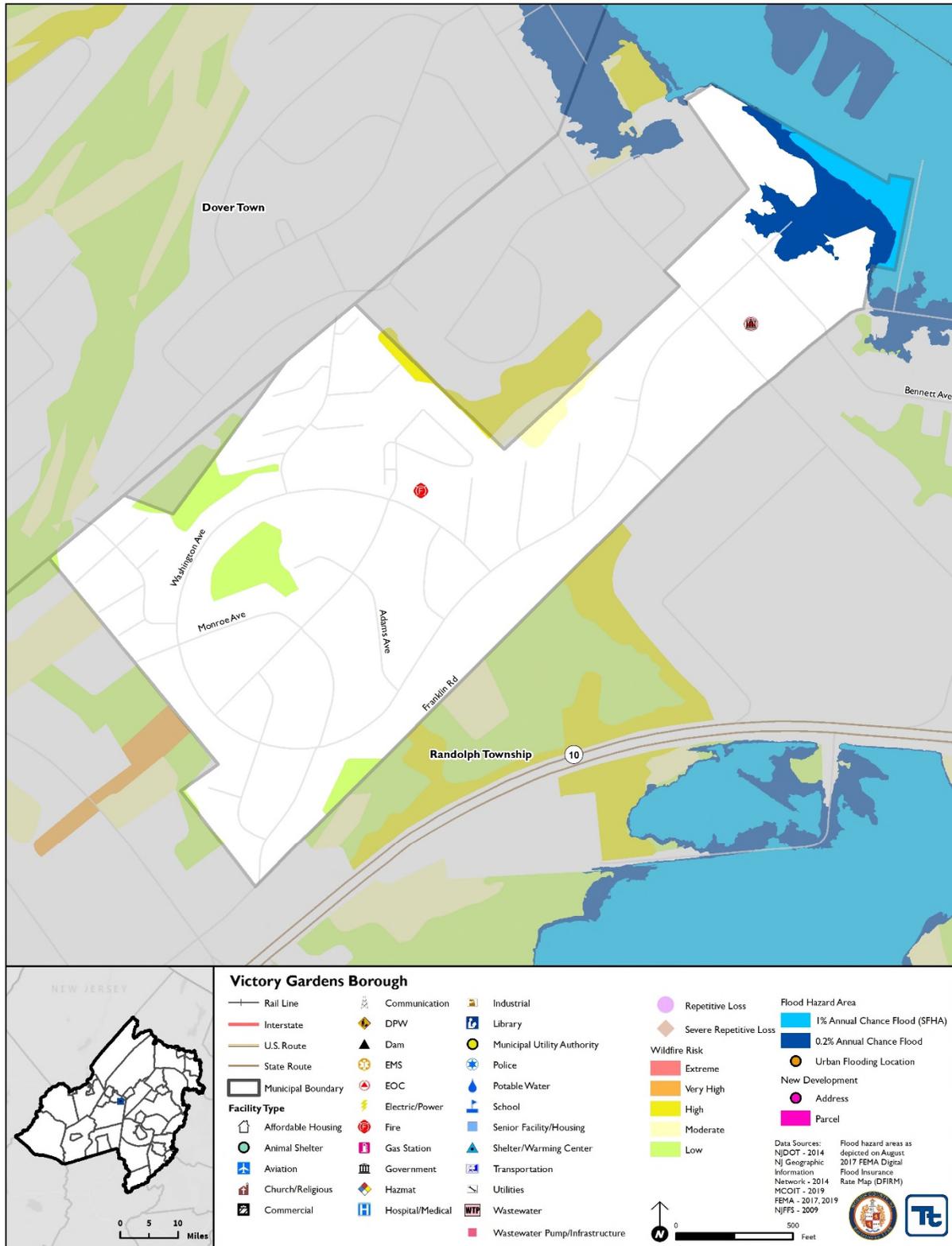
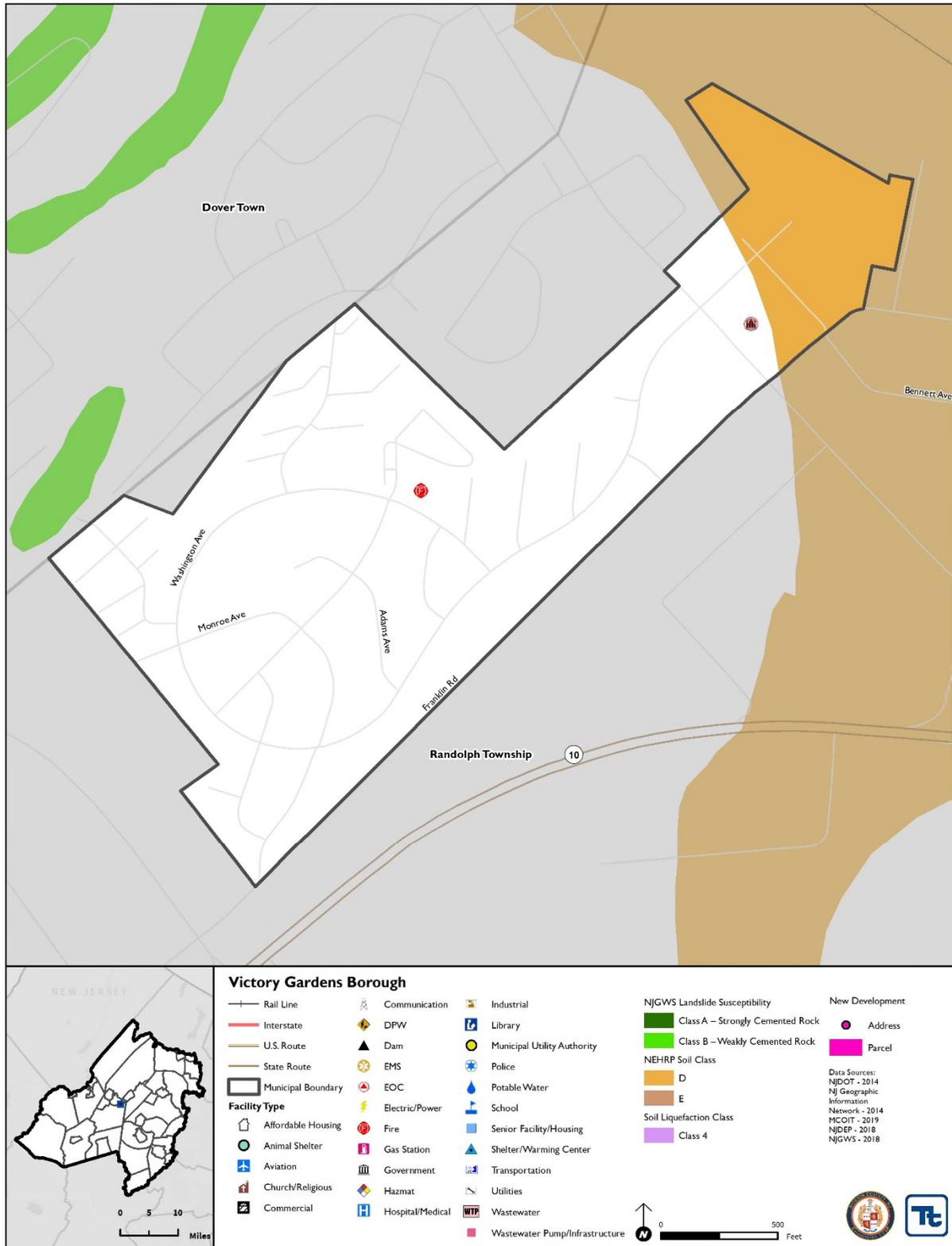




Figure 9.38-2. Borough of Victory Gardens Hazard Area Extent and Location Map 2





Action Worksheet			
Project Name:	Continuity of Operations at Municipal Hall/DPW/EOC		
Project Number:	2020-Victory Gardens-001		
Risk / Vulnerability			
Hazard(s) of Concern:	All hazards		
Description of the Problem:	Currently, the Borough Municipal Hall/DPW on Salem Street that stores data and serves as the Borough's Emergency Operations Center does not have a generator to supply power during a power outage.		
Action or Project Intended for Implementation			
Description of the Solution:	The Office of Emergency Management will research what size generator is necessary to supply backup power to the Municipal Hall/DPW/EOC. The Borough will then purchase and install a generator.		
Is this project related to a Critical Facility?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Level of Protection:	N/A	Estimated Benefits (losses avoided):	Ensures continuity of operations
Useful Life:	20 years	Goals Met:	2
Estimated Cost:	\$50,000	Mitigation Action Type:	Structure and Infrastructure Projects (SIP)
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Immediately after funding received
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA HMGP and PDM, Municipal Budget
Responsible Organization:	OEM	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation, Emergency Management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Install solar panels	\$100,000	Weather dependent; need large amount of space for installation; expensive if repairs needed
	Install wind turbine	\$100,000	Weather dependent; expensive repairs if needed
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Continuity of Operations at the Municipal Hall/DPW/EOC	
Project Number:	2020-Victory Gardens-001	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services to residents
Property Protection	0	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The Borough has the legal authority to complete the project.
Fiscal	0	Project requires funding support.
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	1	1 year after funding received
Agency Champion	1	Office of Emergency Management
Other Community Objectives	0	
Total	10	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Continuity of Operations at the Fire Station		
Project Number:	2020-Victory Gardens-002		
Risk / Vulnerability			
Hazard(s) of Concern:	All hazards		
Description of the Problem:	Currently, the Borough Fire Station does not have a generator to supply power during a power outage. During a power outage there is no way to operate the power overhead doors and the vehicle exhaust disconnect system.		
Action or Project Intended for Implementation			
Description of the Solution:	The Office of Emergency Management will research what size generator is necessary to supply backup power to the Fire Station. The Borough will then purchase and install a 30KW generator.		
Is this project related to a Critical Facility?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Level of Protection:	N/A	Estimated Benefits (losses avoided):	Ensures continuity of operations
Useful Life:	20 years	Goals Met:	2
Estimated Cost:	\$50,000	Mitigation Action Type:	Structure and Infrastructure Projects (SIP)
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Immediately after funding received
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA HMGP and PDM, Municipal Budget
Responsible Organization:	OEM	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation, Emergency Management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Install solar panels	\$100,000	Weather dependent; need large amount of space for installation; expensive if repairs needed
	Install wind turbine	\$100,000	Weather dependent; expensive repairs if needed
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Continuity of Operations at the Fire Station	
Project Number:	2020-Victory Gardens-002	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services to residents (fire)
Property Protection	0	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The Borough has the legal authority to complete the project.
Fiscal	0	Project requires funding support.
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	1	1 year after funding received
Agency Champion	1	Office of Emergency Management
Other Community Objectives	0	
Total	10	
Priority (High/Med/Low)	High	